## WHAT IS CLAIMED IS:

1. A disk device comprising:

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a detector section which detects detection signals from reflected lights of laser lights emitted on a disk, the detection signals includes detrack components, which is failed to correctly detected by the detector section;

a removing section which detects the detrack components, and removes the same from the detection signals; and

a processing section which applies a predetermined processing on the detection signals removed detrack components by the removing section.

- 2. A disk device according to claim 1, wherein the detection signals have a plurality of detection signals from a detector which is divided in plurality, and the removing section detects the detrack components on the basis of magnitude of potentials of the plurality of detection signals.
- 3. A disk device according to claim 1, wherein the detection signals have four detection signals from a quartered detector, and, when a differential signal between a sum of two signals at one side and a sum of two signals at the other side which are divided into two sides by a track axis of the disk exceeds a predetermined value, the removing section determines that detrack components which have failed to detect

recording information on the disk are included in the detection signals, and removes the detrack components.

4. A disk device according to claim 1, wherein the removing section receives control signals supplied from a flywheel for estimating a change in a succeeding detection signal on the basis of a change in a recording signal which records RF signals amplified from detection signals detected by the detector section for a predetermined period, and removes detrack components of the detection signals according thereto.

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- A disk device according to claim 1, wherein the detection signals have four detection signals from a quartered detector which receives reflected lights from DVD (Digital Versatile Disk)-RAM (Random Access Memory), and, when a differential signal between a sum of two signals in a detector at one side and a sum of two signals in a detector at the other side which are divided into two sides by a track axis of the disk exceeds a predetermined value, the removing section determines that detrack components which have failed to detect the recording information are contained in the detection signals, and removes the detrack components by selecting at least one of the two signals in the detector at one side and the two signals in the detector at the other side according to the differential signal.
  - 6. A disk device according to claim 1, wherein

the detection signals have four detection signals from a quartered detector which receives reflected lights from DVD-R or DVD-RW, and, when a differential signal between a sum of two signals in a detector at one side and a sum of two signals in a detector at the other side which are divided into two sides by a track axis of the disk exceeds a predetermined value, the removing section determines that detrack components which have failed to detect the recording information are included in the detection signals, and removes at least one of the two signals in the detector at one side and the two signals in the detector at the other side.

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7. A disk device according to claim 1, wherein the detection signals have four detection signals from a quartered detector which receives reflected lights from DVD-RAM, DVD-R, or DVD-RW,

the removing section determines that detrack components which have failed to detect the recording information are included in the detection signals when a differential signal between a sum of two signals in a detector at one side and a sum of two signals in a detector at the other side which are divided into two sides by a track axis of the disk exceeds a predetermined value, and

identifies a type of the disk, and selects and removes one of the two signals in the detector at one side and the two signals in the detector at the other

side according to the differential signal when the disk is DVD-RAM, and

identifies a type of the disk, and removes at least one of the two signals in the detector at one side and the two signals in the detector at the other side when the disk is DVD-R or DVD-RW.

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- 8. A disk device according to claim 1, wherein the removing section passes the detection signals through filters to output the same, and removes the detrack components.
- 9. A disk device according to claim 1, wherein the removing section removes the detrack components by giving predetermined potentials to input terminals of the processing section instead of supplying the detection signals thereto.
- 10. A disk device according to claim 1, wherein the removing section removes the detrack components in a state where the detection signals are not supplied to the input terminals of the processing section so that noting is connected thereto.
  - 11. A disk processing method comprising:

detecting detection signals from reflected lights of laser lights emitted on a disk, the detection signals includes detrack components, which is failed to correctly detected by the detector section;

detecting the detrack components, and removing the same from the detection signals; and

applying a predetermined processing on the detection signals removed detrack components.

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- 12. A disk processing method according to claim 11, wherein the detection signals have a plurality of detection signals from a detector which is divided in plurality, and the detrack components are detected on the basis of magnitude of potentials of the plurality of detection signals.
- claim 11, wherein the detection signals have four detection signals from a quartered detector, and, when a differential signal between a sum of two signals in a detector at one side and a sum of two signals in a detector at the other side which are divided into two sides by a track axis of the disk exceeds a predetermined value, the step of removing determines that detrack components which have failed to detect recording information on the disk are included in the detection signals, and removes the detrack components.
  - 14. A disk processing method according to claim 11, wherein the step of removing receives control signals supplied from a flywheel circuit for estimating a change in a succeeding detection signal on the basis of a change in a recording signal which records RF signals amplified from the detected detection signals for a predetermined period, and removes the detrack components of the detection signals according thereto.

- A disk processing method according to claim 11, wherein the detection signals have four detection signals from a quartered detector which receives reflected lights from DVD (Digital Versatile 5 Disk)-RAM (Random Access Memory), and, when a differential signal between a sum of two signals in a detector at one side and a sum of two signal in a detector at the other side which are divided into two sides by a track axis of the disk exceeds 10 a predetermined value, the step of removing determines that detrack components which have failed to detect the recording information are contained in the detection signals, and selects and removes at least one of the two signals in the detector at one side and the two 15 signals in the detector at the other side according to the differential signal.
  - claim 11, wherein the detection signals have four detection signals from a quartered detector which receives reflected lights from DVD-R or DVD-RW, and, when a differential signal between a sum of two signals in a detector at one side and a sum of two signals in a detector at the other side which are divided into two sides by a track axis of the disk exceeds a predetermined value, the step of removing determines that detrack components which have failed to detect the recording information are included in the detection

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signals, and removes at least one of the two signals in the detector at one side and the two signals in the detector at the other side.

17. A disk processing method according to claim 11, wherein the detection signals have four detection signals from a quartered detector which receives reflected lights from DVD-RAM, DVD-R, or DVD-RW, and

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when a differential signal between a sum of two signals in a detector at one side and a sum of two signals in a detector at the other side which are divided into two sides by a track axis of the disk exceeds a predetermined value, the step of removing determines that detrack components which have failed to detect the recording information are included in the detection signals,

identifies a type of the disk, and selects and removes one of the two signals in the detector at one side and the two signals in the detector at the other side according to the differential signal when the disk is DVD-RAM, and

identifies a type of the disk, and removes at least one of the two signals in the detector at one side and the two signals in the detector at the other side when the disk is DVD-R or DVD-RW.

18. A disk processing method according to claim 11, wherein the step of removing passes the

detection signals through filters to output the same, and removes the detrack components.

19. A disk processing method according to claim 11, wherein the step of removing removes the detrack components by giving predetermined potentials to input terminals of the processing section of the disk device instead of supplying the detection signals thereto.

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20. A disk processing method according to

claim 11, wherein the step of removing removes the

detrack components in a state where the detection

signals are not supplied to the input terminals of the

processing section of the disk device so that nothing

is connected thereto.